

Dart Hawkesbury 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada Tel (613) 632-5200

PO No	Supplier	Line Item No	Rel	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging P Days D
PO039137	ACI001-VC	2	1	Net 30	M304S22GA4P(	304/316 Sheet .032 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS PER MIL- S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTIM A240 OR ASME SA240 receive				64	3/6/2018	64	8-	\$047936	Stock	3/5/2018	\$ 3.49 / sf	0
		3			M1018R3.500	M1018R3.500: MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL- S-7097 OR ASTM A108 receive ft				6		6		\$047937	Stock	3/5/2018	\$ 31.09 / ft	0
		4				4140 Steel Round Bar 3.250™ receive ft						6		5047938	stock 3	3/5/2018	\$ 53.33 / ft	0
		7				304 Seamless Tubing 1.75 X .120W: MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASTM A269 receive ft				12		20	o.	9047939	Stock 3	1/5/2018	\$ 30.83 / ft	0
		8				Extrusion 4X4X3/8 as per fwg d6201 rev. 5 8173203				20		20	17.45	47940	tock 3	5/2018	20.25 / ft	0
									Total:	108		116			-	-		

Plex 3/5/2018 2:33 PM Dart Dubois Pascal

# **DELIVERY - CLIENT**

Copy c000075960



Billed to

DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

1270 , ABERDEEN ST.

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248

Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Date Customer N°

**Delivery date** 

CLI0001056

2018/03/06 5 2018/02/27

039137

Processed by

Josianne Bourdon

Your order N°

Salesman

Carrier

**OUELLETTE VALLEYFIELD** 

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Page

**Credit Terme** 

Net 30 Days

Instruction F-M	Delivery Route		PCS NB	Internal Use Only
Product Description	Weight	Qty U/M	CMD EXP B/O	IN
1 SHEET SS 22G SS304 #4 (4 X 8) FESS-22G483044 3437 2 X 4' X 8' HEAT \(\) LZZ30456	84.03	64.00 PI2_\$CLB	2x4 x8	64m 200
2 ROUND CR 3 1/2 1018 (R) RCR-312 5323	196.26	6.00 PI_\$CLB		0
COUPE A LA SCIE  SCIE  1		1.00 UN	1%6,	CUT 22 4
3 ROUND 4140 ANNEALED 3 1/4 (R) * R4140-314A 4943 1 X 6 HEAT: 228699	175.80	6.00 PI_\$CLB	6	

NIR: R-109516-6

# ACIER OUELLETTE INC.

# **DELIVERY - CLIENT**

Copy C000075960

eld (Québec) J6S 5L1 Mtl: 514-336-4248 Ext.: 800-667-4248 Mtl: 514-336-4248 Ext.: 866-456-4242  Processed by  Salesman  Carrier  Credit Terme  PCS NB  1.00 UN  1.00 PI_\$CDI  20.00 PI_\$CDI  20.00 PI_\$CLB		ACIEN OUELLETTE INC.	INC.	Customer No		CLI0001056	ζ,	
Tell: 450-377-4248 bit: 514-336-4248   Delivery date   Deliv	OUELLE ILE	Salaberry de Valleyfield (Qu	rébec) J6S 5L1	Date		2018/02/27		
Shipped to   Processed by   Dosianne Bourdon   Salesman   Salesman   Salesman   Salesman   Salesman   Salesman   Salesman   Ouellette Valleyfield   Ouellette Valleyfield   Salesman   Ouellette Valleyfield   Ouellette Valleyfi		Tél.: 450-377-4248 Mtl: 51 Fax: 450-377-5696 Mtl: 51	4-336-4248 Ext.: 800-667-4248 4-336-4246 Ext.: 866-456-4242	Delivery dat	Ф	2018/03	/ob 5	
Shipped to   Processed by   Doslanne Bourdon   Salesman   Carrier   OUELLETTE VALLEYFIELD   OUElleTTE VALLEYF				Your order N	•	039137		
Salesman   Carrier   OUELLETTE VALLEYFIELD		Shipped to		Processed b	<	losianne Ro	urdon	
Att : CHANTAL LAVOIE Tél.: 613-632-5200  Att : CHANTAL LAVOIE Tél.: 613-632-5200  Credit Terme  Net 30 Days  Page  2  Prion  Weight Qty U/M CMD EXP B/O IN I S C  1.120 SS304 MF RANDOM NS  41.80 20.00 PL \$CDB  1.116  68.60 20.00 PL \$CDB  2.224  2.334	DART AEROSPACE LTD				•			
Att : CHANTAL LAVOIE Tél.: 613-632-5200  Credit Terme  Net 30 Days  Delivery Route 5  Page 2  ption  Weight Qty U/M CMD EXP B/O IN I S C  5  1.00 UN  1.20 SS304 MF RANDOM NS  41.80  20.00 PL_\$CLB  68.60  20.00 PL_\$CLB  DAS  DAS  DAS  DAS  DAS  DAS  DAS	1270 AREDDEEN CT			Salesman				
Att : CHANTAL LAVOIE Téi.: 613-632-5200  Credit Terme Net 30 Days  Product Description  Product Description  Weight Qty U/M CMD EXP B/0 IN I S C  TRANSIT ST-JEROME LE 01/03  COUPE A LA SCIE 1  TUBE ROUND SS 1.750 DD X.120 SS304 MF RANDOM NS TRSS-1750120MF-V 9055  1 X 20" R2L AE3T: YOL6  AC13903-GF-28702  T-BAR ALU 4 X 4 X 3/8 * 6061T6  TBAL-4438  6434  1 X 20" VEAT: 852198  Credit Terme Very Route  Regint Qty U/M CMD EXP B/0 IN I S C  IN I S C  IN I S C  LACS ONLY  IN I S C  LACS ONLY  AC13903-GF-28702  T-BAL-438  6434  1 X 20" VEAT: 852198  CREDITE Téi.: 613-632-5200  Page 2  2  AC13904-GR-287082  AC13904-GR-287082  AC13904-GR-287082	HAWKESBURY, Ontario, K6A 1K7	, Ontario,		Carrier		OUELLETTE	VALLEYFIELD	9
Struction F-M   Delivery Route   5   Page   2			Tél.: 613-632-5200	Credit Term	(D)	Net 30 Days	0)	
Product Description Weight Qty U/M CMD EXP B/O IN I S C  TRANSIT ST-JEROME LE 01/03  COUPE A LA SCIE  SCIE  1  TUBE ROUND SS 1.750 OD X. 120 SS304 MF RANDOM NS TRSS-1750120MF-V 9055  1 X 20° R/L (JEAT: Y01.6)  ACL3903-CF-28/02  T-BAR ALU 4 X 4 X 3/8 * 6061T6 TBAL-4438  6434  1 X 20° (JEAT: 852198  ACL3904-GR-28/02  ACL3904-GR-28/02  ACL3904-GR-28/02  ACL3904-GR-28/02  ACL3904-GR-28/02  ACL3904-GR-28/02  ACL3904-GR-28/02  S-30			OI .	Page		2		
COUPE A LA SCIE  COUPE A LA SCIE  1.00 UN  SCIE  1.00 UN  TUBE ROUND SS 1.750 OD X.120 SS304 MF RANDOM NS  TRSS-1750120MF-V 9055  1 X 20 R/L HEAT: YOLG  AC13903-CF-28/07  T-BAR ALU 4 X 4 X 3/8 * 6061T6  TBAL-4438  64.34  1 X 20 HEAT: 852198  AC13904-GR-728/09  DAS  S-30  DAS  S-30  DAS  S-30	Product Description	Weight				In	ternal Use (	Inly
TRANSIT ST-JEROME LE 01/03  COUPE A LA SCIE  1  TUBE ROUND SS 1.750 OD X .120 SS304 MF RANDOM NS  TRSS-1750120MF-V 9055  1 X 20' R/L (HEAT: YOLE  AC13903-CF-28/02  T-BAR ALU 4 X 4 X 3/8 * 6061T6  TBAL-4438  6434  1 X 20' HEAT: 852198  CAC13904-GR-28/62  CAC13904-GR-28/62				+	8/0	IN	v	100
TUBE ROUND SS 1.750 OD X .120 SS304 MF RANDOM NS  TRSS-1750120MF-V 9055  1 X 20' R/L (HEAT: YOL6  AC13903-CF-28/02  T-BAR ALU 4 X 4 X 3/8 * 6061T6  TBAL-4438  6434  1 X 20' HEAT: 852198  AC13904-GR-28/62	TRANSIT ST-JEROME LE 01/03  COUPE A LA SCIE SCIE							
TUBE ROUND SS 1.750 OD X .120 SS304 MF RANDOM NS  TRSS-1750120MF-V 9055  1 X 20' R/L (HEAT: YOL6  AC13903-CF-28/02  T-BAR ALU 4 X 4 X 3/8 * 6061T6  TBAL-4438  6434  1 X 20' HEAT: 852198  1 X 20' HEAT: 852198	The second secon	A 100 Miles						-
T-BAR ALU 4 X 3/8 * 6061T6  TBAL-4438  64.34  1 X 20 HEAT: 852198  AC13904-GR-28/62		41.80		8	3	2000		
2		68.60				_		
Evel. 2	198			8		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

a 25% restocking charge.

Prepared By :

Time

Total (\$CAD)

Customer's Signature

Conditions:

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Ouellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to

Total Weight (Lbs):

566.49

NIR: R-109516-6



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

Tel (613) 632-5200

# **PURCHASE ORDER** PO039137

Supplier: ACI001-VC

> Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

PO No:

PO039137

PO Date:

2/27/18 3/7/18

Due Date:

**Purchase Order** Revision:

**Revision Date:** 

**Ship-To Contact:** 

Lavoie, ChantalPhone:

clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury

ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

**Pymt Terms:** 

Net 30

Freight Terms:

Special Comments: quotation no: sou0088460

Items Line Supplier Due Order Received Unit Extended Item Part **Part No** Description Status Date Quantity Quantity Balance Price (CAD) Price M2024T3S.100 2024-T3,100 Firmed 3/7/18 48 sf 0 sf \$17.1875/sf 48 sf \$825.00 Sheet : MATERIAL: 2024-T3 **ALUMINUM** SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 **OR AMS 4037 OR ASTM B209** receive sf 2 M304S22GA4P 304/316 Sheet Firmed 3/7/18 64 sf 64 sf \$3.491875/sf \$223.48 .032 : MATERIAL: AISI 304/316 SS SHEET ANNEALED AS MAR 0 5 2018 PER MIL-S-5059 OR AMS 5513 (304) OR AMS DAS 5524 (316) OR ASTM A240 OR ASME SA240 9-89 receive sf 3 M1018R3.500 M1018R3.500 Oft. Firmed 3/7/18 6 ft 6 ft \$31.09/ft \$186.54 : MATERIAL: AISI 1018-1025 **ROUND BAR** MAR 0 5 2018 M1010S20GA AS DAS PER MIL-S-7097 OR ASTM A108 9-89 receive ft 4 M4140N-R3.250 4140 Steel Round Firmed 3/7/18 6 ft \$53.3333/ft \$320.00 Bar 3.250" MAR 0 5 2018 receive ft 5 MT-4140-S-AISI 4140 Steel Firmed 3/7/18 12 ft 0 ft 12 ft \$116.00/ft \$1,392.00 1.250X11.000 Sheet/Plate

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9-39

				Items						
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
Line Item Note	2 pcs of 6ft									
6	MT-4140-S- 0.375X5.500		AISI 4140 Steel Sheet/Plate	Firmed	3/7/18	6 ft	O ft	6 ft	\$31.3333/ft	\$188.00
7	M304TR1.750W.120		304 Seamless Tubing 1.75 X .120W : MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING AS PER ASTM A213 OR ASME SA213 OR ASME SA213 OR ASTM A269 receive ft	Firmed	3/7/18	12 ft	20		\$30.83333/M	\$370.00 DAS 111 9-89
8	D6201P		T Extrusion 4X4X3/8 as per dwg d6201 rev. b B173203	Firmed	3/7/18	20 ft	28	) 20 ft	\$20.25/ <del>n</del> MAR 0 5 <b>20</b>	\$405.00 18 DAI 9-83

# **Order Notes**

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/27/18 8:37 AM dart.lavoie.chantal



# ACIER OUELLETTE INC.

935, Boul. du Hâvre Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

# Quotation

SOU0088460

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

**Customer No** 

CLI0001056

Date

2018/02/26

Revision N°

0

**Prices valid until** 

2018/03/05

Your Order No

**Processed by** 

Josianne Bourdon

Salesman

JOSIANNE

Carrier

**OUELLE SDV** 

**Credit Terms** 

Net 30 Days

Page

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amoun
AL. FEUILLE .100 2024T3 N 1 X 4' X 12' 4-5 DAYS	0.00	1.00	UN	1.00			1.00	825.000	825.00 \ ).\ ST.
SHEET SS 22G SS304 #4 (4 X 8) FESS-22G483044 <b>3437</b> 2 X 4' X 8' STOCK	84.03	64.00	PI2_\$CLB	2.00	UN		2.00	111.740	3.49187
ROUND CR 3 1/2 1018 (R) * RCR-312 5323 1 X 6' STOCK	196.26	6.00	PI_\$CLB	6.00	PI		1.00	186.540	186.54
COUPE A LA SCIE SCIE 1		1.00	UN	1.00					
SQUARE 4140 HT 1/2 N 1 X 8' 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	276.000	276.00
ROUND 4140 ANNEALED 3 1/4" N 1 X 6' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	320.000	320.00
PLATE 4140 HT 1 1/4  N 2 X 11" X 72" 7-10 JOURS	0.00	2.00	UN	2.00	UN		2.00	696.000	1 392.00
PLATE 4140 HT 3/8  N 1 X 5 1/2" X 72" 7-10 DAYS	0.00	1.00	UN	1.00	UN		1.00	188.000	188.00
TUBE ROUND SS 1.750 OD X .120 SS304 MF/ RANDOM NS TRSS-1750120MF-V 9055 1 X 20' R/L 2-3 days	41.80	20.00	PI_\$CPI	20.00	PI		1.00	370.000	370.00
T BAR ALUMUNIUM 6061T6 4 X 4 X .378 N 1 X 20' 2-3 DAYS	0.00	1.00	UN	1.00	UN		1.00	405,000	405.00

Date:

Next Page...



# **ACIER OUELLETTE INC.**

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mti: 514-336-4246 Ext.: 866-456-4242

# Quotation

SOU0088460

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Shipped to

, Ontario,

Att: CHANTAL LAVOIE Tél.: 613-632-5200

Customer No

CLI0001056

Date

2018/02/26

Revision N°

0

Prices valid until

2018/03/05

Your Order No

Processed by

Josianne Bourdon

Salesman

**JOSIANNE** 

Carrier

Page

**OUELLE SDV** 

**Credit Terms** 

Net 30 Days

2

Product N° and description	Weight	Qty	U/M	Qty	U/M	Price	Pcs Nb	Price	Amou
SURCHARGE ENERGETIQUE			\$						3.9
FRAIS_ENERGETIQUE									
								- 1	
			1						
						ĺ			
								1	
	1 1								
			1						
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			- 1						
			1						
			- 1			1		1	
								1	
						- 1		- 1	
						- 1			
						1		1	
								1	
								- 1	

Total Weight (Lbs)

322.09

**Important** 

This offer is based on availability and current pricing conditions that may be revised upon reception of the order.

This offer is subject and conditional to credit approval.

Approuved and Accepted by :

Date :

Sub-total

4 189.97

TVH-13 · · 544.70

Total (\$CAD)

4 734.67

MATERIAL:M	-			1793
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	20	7	THICKNESS ORDERED: W.120 THICKNESS RECEIVED: W.120 SHEET SIZE ORDERED: M/A SHEET SIZE RECEIVED: M/A	
DESCRIPTION	(Ch	CR eck (N)	COMMENTS	
SURFACE DAMAGE	Y	N		
CORRECT FINISH	(Y)	M		
CORROSION	Y	(N)		
CORRECT GRAIN DIRECTION	(Y)	N		
ORRECT MATERIAL PER M-DRAWING	(Y)	N	Artm A554	
CORRECT THICKNESS	Y	N		
PHOTO REQUIRED	X	(N)		
CORRECT REF # TO LINK CERT	X	N	Heat # 4066	
ORRECT MATERIAL IDENTFICATION	X	N		
CORRECT M# ON THE MATERIAL	(X)	N		

CUT SAMPLE PIECE OF				SS CHECK.	
F	RECORD RES	SULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89 MAR 0 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

N)

DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF

DOES THIS REQUIRE AN EXTRUSION REPORT

PURCHASE MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBING

ASTM A554 WILL FINISH ASTM A269 MILL FINISH

FINISH:

WIDTH WALL

EG. 0.75" X 0.75" X 0.049 WALL = M304TS0.750W.049

PART NUMBER:

PART NUMBER:

M304TS A.AAA W .TTT

WHERE: A.AAA = WIDTH IN INCHES
.TTT = WALL THICKNESS IN INCHES

RELEASED

"SEAMLESS" REMOVED FROM PURCHASE MATERIAL SPECIFICATION (SEE NCR14-3818) DRAWING MOVED TO "B" SIZE BORDER FINISH ADDED (SEE NCR 08-045 FOR DETAILS). "SEAMLESS" ADDED TO PURCHASE MATERIAL.
ASTM A289 ADDED TO FINISH.
REASON: SPEC ADDED FOR 1/2" TUBING DESCRIPTION DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA 88 AJS AJS 80 01.06.08 DATE 08.08.28 09.10.16 14.06.20

CHECKED

M304TS

REV. D SHEET 1 OF 1

SCALE

304/316 SQUARE TUBING

14.05.20

8

0

0

MATERIAL: M4/4  DATE: M	-	3		2	PO / BATCH	NO::039	137/5047
MATERIAL CERT REC'D:  QUANTITY RECEIVED:  QUANTITY INSPECTED:  QUANTITY REJECTED:	6	5		THIC	KNESS ORDE KNESS RECEI ET SIZE ORDE ET SIZE RECEI	VED: 3.7	-
DESCRIPTION	(Ch	CR neck (N)			COMMENT	тѕ	
SURFACE DAMAGE	Y	(N)					
CORRECT FINISH	(Y)	N.					
CORROSION	Y	(N)					
CORRECT GRAIN DIRECTION	(3)	N	Δ.				
CORRECT MATERIAL PER M-DRAWING	0	N	75tin	n A29			
CORRECT THICKNESS	(Y)	Ŋ,	,,,,	,,,			
PHOTO REQUIRED	Y	(N)					
CORRECT REF # TO LINK CERT	(Y)	N	H2645	1 22 26	99		
CORRECT MATERIAL IDENTFICATION	(M)	N					
CORRECT M# ON THE MATERIAL	(Y)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(1)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N	)				
CUT SAMPLE PIECI	_			ND PREFOR		SS CHECK.	
			HRC	HRB	DUR A	DUR D	I WEBSTER
TYPE OF MATERIAL			TINO	LIVD	DUKA	DOKD	WEDSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
DAS INSPECTED BY:	SIGNED OFF BY:
DATE: 9-89 MAR 0 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIZE OF TEST SAMPLE

HARDNESS / DUROMETER READING



DESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CAN	
CHECKED	APPROVED	DRAWING NO. M4140H-R	REV. A SHEET 1 OF 1
DATE		TITLE	SCALE
	05.02.21	4140 ROUND BAR	1:1
А	05.02.21	NEW ISSUE	

PURCHASE MATERIAL: AIST 4140 H ROUND BAR

PER AISI 4140 OR ASTM A304\02/-A-434-BC/

-A193-03- GRADE-B7 /-A29-03

UNS # - 641400

MINIMUM ULTIMATE TENSILE STRENGTH + 100 KSI MINIMUM YIELD TENGLE STRENGTH = 66 Ksi

WHERE D. DDD & DIAMETER IN INCHES M4140H-R D.DDD PART NUMBER: DIA

EG. 78" ROUND BAR = M41404-RO. 875



504
)
STER

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

MAR 0 5 2018

INSPECTED BY:

DATE:

CP 12 09 05 DS 01.06.12 BY DATE REV. B SCALE SHEET 1 OF 1 DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA
MI018-R COPYRIGHT © 2001 BY DART AEROSPACE LTD 1018-1025 ROUND BAR B REFORMAT, ADD ASTM A108, ADD TOLERANCES 800 12.09.05 NEW ISSUE CHECKED
MFG. APPR.
APPROVED
DE APPR.
DE APPR. DESIGN DRAWN

PURCHASE MATERIAL. AISI 1018-1025 ROUND BAR

SPECIFICATION:

M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES DIA. MIL-S-7097 OR ASTM A108

EG. 7/8" ROUND BAR = M1018-R0.875

PER ASTM A108 AS FOLLOWS:

 $\cup$ 

PART NUMBER:

TOLERANCES:

TOLERANCE +0.000/-0.003 +0.000/-0.004 +0.000/-0.005 +0.000/-0.006 SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 4.0" TO 6.0" INCL. OVER 4.0" TO 6.0" INCL. +

SPECIFICATION CONTROL DRAWING

2

MATERIAL: A	MAR 0 5 2018	PO / BATCH NO.: <u>Q39/37/50 479</u> 30
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED:	4.65 64.612	THICKNESS ORDERED: 226 THICKNESS RECEIVED: 3.26 SHEET SIZE ORDERED: 4X8
QUANTITY REJECTED:	671	SHEET SIZE RECEIVED: 4X8

	NO	CR	
DESCRIPTION	(Ch	eck	COMMENTS
	Y/	(N)	
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	(8)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	19tm 4240
CORRECT THICKNESS	(Y)	N.	
PHOTO REQUIRED	X	N	
CORRECT REF # TO LINK CERT	(A)	N	Heat It LZ 23 C456
CORRECT MATERIAL IDENTFICATION	(3)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE		10	
<b>ENGINEERING SIGN OFF</b>	Υ	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
F	RECORD RES	SULTS BELOV	V		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS	SIGNED OFF BY:
DATE:	9-3MAR 0 5 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

C)

Δ

O

MIL.S-5059 OR AMS 5513 (304) OR AMS 5224 (316) OR ASTM 4240 OR ASME SA240 SPECIFICATION:

PURCHASE MATERIAL: AISI 304/316 SS SHEET ANNEALED

FINISH

DART M-NUMBER 10 ENTIFIER 14 P 20 S NONE 4 P 6 P 6 P 8 P

PART NUMBER:

FINISH
UNPOLISHED No. 1
UNPOLISHED No. 2B
UNPOLISHED No. 2B
POLISHED No. 3
BUFFED No. 4
BUFFED No. 6
BUFFED No. 7 M304S TT GA #P WHERE "TT" = GAUGE THICKNESS WHERE "#P" = FINISH IDENTIFIER

EG. 16 GAUGE SS SHEET 2B FINISH = M304S16GA EG. 16 GAUGE SS SHEET No. 4 POLISHED = M304S16GA4P

GAUGE THICKNESS REFERENCE:

THICKNESS

9 RANGE (IN)
0.0178 - 0.019
0.0178 - 0.019
0.0178 - 0.025
0.025 - 0.025
0.036 - 0.035
0.036 - 0.045
0.057 - 0.058
0.058 - 0.058
0.059 - 0.058
0.059 - 0.058
0.0182 - 0.019
0.115 - 0.114
0.144 - 0.121
0.182 - 0.194
0.131 - 0.025
0.025 - 0.223
0.025 - 0.223
0.025 - 0.223
0.026 - 0.223
0.026 - 0.223
0.027 - 0.028
0.038 - 0.223
0.258 - 0.223
0.258 - 0.223
0.259 - 0.229 0.024 0.027 0.027 0.033 0.033 0.034 0.034 0.034 0.034 0.034 0.034 0.034 0.035 NOM. THICK. (IN) 0.01875 0.021875 0.021875 0.021875 0.021875 0.03125 0.03125 0.03125 0.03125 0.03125 0.03125 0.03125 0.03125 0.04375 0.05625 0.0703125 0.0703125 0.0703125 0.0703125 0.070316 0.140625 0.140625 0.140625 0.171875 0.171875 0.2344 0.2344 0.2656 

REV. D. SHEET 1 OF 1 15.01 06 12.09.20 09.06.01 01.0924 DATE DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. M304S A.S MB 8 DS Y REFORMAT DWG, ADD ASTM/ASME SPECS (ZN D8-1), ADD GAUGE REF (C8-1), REF PAR 08-020A DEFINED FINISH OPTION (ZN CB) AND EXAMPLE OF MATERIAL PIN WITH FINISH OTHER THAN 28 (ZN BS). DESCRIPTION ADDED GAUGES 0-7. **NEW ISSUE** MFG. APPR. APPROVED CHECKED DE APPR. DRAWN DESIGN REV. O < 60

RELEASED

2015 FEB 04 ECN 15-522

8

COPYRIGHT © 2001 BY DART AEROSPACE LTD
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15.01.06

304/316 SS SHEET

U

FESS-2264830411

TR-2098 49621

SEZE	T	- Wölghi	RCBS, INC.		ົກ	eel Propa maile Te	12					Clu	micsi Pr (%)		:08/14/20		
91.013	Product				Y.S. 931	T.E. 129	UL (%)	IRD	HV	£100	Si x 100	1/16 x 100	P 1900	S x 1000	Ni x 100	Cr x 100	N ± 100
120"(3.0MM) X 48" X 96 060"(1.5MM) X 48" X 96 048"(1.2MM) X 48" X 96 030"(0.8MM) X 48" X 96	1	1871 1885 1882 1039	YU183646 YU183316	85516127A-111 855161398-11 64914327A-11 84578053B-11	307 308 298 293	578 668 636 578	54 50 48 51	86 87 84 85	171 180 188 171	4.2 3.8 2.3 2.4	43 42 33 41	88 92 91 90	34 35 33 33	11 4 3	810 809 802 808	1819 1806 1812 1833	2.8 2.9 3.5 5.5
put		p	1	1 100	10		1,	9/1	23	1/20	2						
,		1	54	148	18	,	Y	) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	10.	20	4	5.					
		E	34	481	10	5	V	19	18	33	16	5					
		13	4	10	22	5	1	Z	2	309	13	0					

ASTM A688-15/ABMS SA868-15 ANNEALED COUNTRY OF MELT AND MANUFACTURE: TARVAN

S. Teel Methodo, S. PA-ASTA ESPIR, 103 B. Other-Stement (ARTH. E. 1989, 100 T. MERCHAY FREE E-SOURCE-YUSCO B. CHISHCOLL PROPERTIES AND PROYESCAL PROPERTIES COMPLY TO AMS 6812.)

RCR-312-V



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

# CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 50152

ALBARAN

50152

CLIENTE

LES ACIERS TRANSBEC (1997) LTÉE

Delivery Note Nr. Norma: EN 10277 CUSTOMER

Norm:

Bright steel products. Technical delivery conditions.

Productos Calibrados de acero. Condiciones técnicas de suministro.

PRODUCTO SOLICITADO! PRODUCT ACCORDING ASTM A 108

NEPEDIDO Purchase Order	Rivelo Discription		TOLERANCE TOLERANCE	OF)	MEDIDA Mary ement
OU-47949	1018 RED TORNEADO 88,90 (3 1/2") -	1.016	- 0,102 -	141121	88,90
VI-48475	1018 RED. ESTIRADO 38,10 (1 1/2")	3.224	- 0,051	141144	38,10
VI-48475	1018 RED. ESTIRADO 44,45 (1 3/4")	1.916	- 0,076	141143	44,45
VI-48475	1018 RED. ESTIRADO 60,33 (2 3/8")	1.088	- 0,076	141139	60,33
PAJ-48144	1018 RED. ESTIRADO 44,45 (1 3/4")	1.038	- 0,076	141273	44,45
PAJ-48144	1018 RED. TORNEADO 74,61 (2 15/16*)	1.068	- 0,102	141277	74,61
PAJ 48144	1018 RED. TORNEADO 76,20 (3")	1.109	- 0,102	141278	76,20
MN-48543	1018 RED. ESTIRADO 44,45 (1 3/4")	2.076	- 0,076	141426	44,45
MN-48543	1018 RED. TORNEADO 88,90 (3 1/2")	2.030	-0,102 —	141418	88,90
MN-48543	1018 RED. TORNEADO 101,6 (4")	2.086	- 0,102	916872	101,60
MN 48543	1018 RED. TORNEADO 74,61 (2 15/16")	2.140	- 0,102	141420	74,61
PAR-48683	1018 RED. ESTIRADO 34,93 (1 3/8")	1.042	- 0,051	141601	34,93
PAR-48683	1018 RED. ESTIRADO 60,33 (2 3/8")	2.082	- 0,076	141604	60,33
MJP-48682	1018 RED. ESTIRADO 36,51 (1 7/16")	1.048	- 0,051	916874	36,51
PAR-48683	1018 RED. TORNEADO 76,20 (3*)	1.109	-0,102	141605	76,20

Composición química de la colada / Chemical Analysis of Heat

	MEDIDA Measurement	OF	COLADA	% C	% Cu	% Ma	% N	% P	% 8	% Si
-	88,90 0,00	141121	- 42180	0,160	0,070	0,810	0,010	0,017	0,030	0,210
	38,10 0,00	141144	42201 AG	0,170	0,148	0,768	0,004	0,011	0,023	0,198
	44,45 0,00	141143	42311 JS	0,170	0,000	0,650	0,000	0,015	0,027	0,310
	60,33 0,00	141139	42291 IS	0,170	0,000	0,650	0,000	0,015	0,027	0,310
	44,45 0,00	141273	42311 IS	0,170	0,000	0,650	0,000	0,015	0,027	0,310
	74,61 0,00	141277	42282 RA	0,165	0,180	0,790	0,000	0,012	0,022	0,210
	76,20 0,00	141278	42282 RA	0,165	0,180	0,790	0,000	0,012	0,022	0,210
	44,45 0,00	141426	42311.15	0,170	0,000	0,650	0,000	0,015	0,027	0,310
-	88,90 0,00	141418	-(42180 /	0,160	0,070	0,810	0,010	0,017	0,030	0,210
	101,60 0.00	916872	41627	0,160	0,190	0,810	0,000	0,017	0,015	0,210
	74,61 0.00	141420	42282 RA	0,165	0,180	0,790	0,000	0,012	0,022	0,210
	34,93 0,00	141601	42320 IS	0,170	0,000	0,670	0,000	0,022	0,022	0,300
	60,33 0,00	141604	42291 IS	0,170	0,000	0,650	0,000	0,015	0,027	0,310
	36,51 0,00	916874	4027715	0,160	0,000	0,710	0,000	0,018	0,003	0,310
	76,20 0,00	141605	42282 RA	0,165	0,180	0,790	0,000	0,012	0,022	0,210

Curucterísticas mecánicas I Mechanical properties



ARANA Y LUPARDO, 2 48490 UGAO-MIRAVALLES/V(ZCAYA (SPAIN)

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www.calibradospradera.cs

# CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 50152

ALBARAN 50152 Delhury Note Nr.

CLIENTE LES ACIERS TRANSBEC (1997) LTÉE CUSTOMER

Norma : EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products, Technical delivery conditions.

MEDIDA Measurement	OF	COLADA  Cast Nr.	Resistencia Tens, strenghi Nhum2	Lim.elástica Yield point 0.2% N/mm2	Alargamiesto Elongation Lo=50 mm.	Dareza HE Hardness HB
88,90	141121	42180	- 458,00	301,00	30,00	135,00
38,10	141144	42201 AG	473,00	0,00	0,00	0,00
44,45	141143	42311 IS	0,00	0,00	0,00	142,00
60,33	141139	42291 IS	0,00	0,00	0,00	137,00
44,45	141273	42311 IS	0,00	0,00	0,00	142,00
74,61	14(277	42282 RA	480,00	299,00	34,50 j	0,00
76,20	141278	42282 RA	480,00	299,00	34,50	0,00
44,45	141426	42311 IS	0,00	0,00	0,00	142,00
88,90	141418	42180	- 458,00	301,00	30,00	135,00
101,60	916872	41627	478,00	308,00	33,20	148,00
74,61	141420	42282 RA	480,00	299,00	34,50	0,00
34,93	141601	42320 IS	0,00	0,00	0,00	143,00
60,33	141604	42291 IS	0,00	0,00	0,00	137,00
36,51	916874	4027715	0,00	0,00	0,00	152,00
76,20	141605	42282 RA	480,00	299,00	34,50	0,00

# Calidad Superficial

DESCRIPCIÓN	100 100 100 100 100 100 100 100 100 100		OF	Clase
Description		1		EN 10277-1

Observaciones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto comple con les especificaciones del pedido. QUALITY DEPARTMENT. Certify that the procinci fulfils the order specifications.

Fecha Date: 20/12/2017

Firmado: Susuau Fernández Directora de Calidad



ਤੌਜ਼ਿਅਦਾੜ ਵੱਡ ਉਤਵਧੰਤਾ। ISO 9001, 2008

WHEN THE PROPERTY

R4A-314

ABS

ACCIAIERIE BERTOLI SAFAU ABSOLUTE STEEL QUALITY

CERTIFICATO DI COLLAUDO

Data COLATAN 09 04 2045 2286994

ACCIAIERIE BERTOLI SAFAU SPA Via Botterie m.26 - Fetziana Cargoratus - 13050 Pozzacio del Friedl (1/0) Tel. + 10 0432 613711 - Fan + 10 0432 613309 - avena absoccial il: Inspection Certificate 3.1/Certificat de reception 3.1/ Abnahmeprufzeugnis 3.1

1/2

CLIENTE Outomer-Client-Barrella

**MAGELLAN CORPORATION** 

ORDINE

210327

PROFILO

HOT ROLLED ROUND BARS , 82,55 MM - 3

STATO DIFORNITURA

**FULLY ANNEALED** 

ACCIAIO

AISI 4140

Commessa/Pos

1029922/110

CAPITOLATO ABS:

ABS

CAPITOLATO DI ANALISI:

MAGELLAN MIC 6016/2010 ADD.5 DEC.07-2014

CAPITOLATO DI FORNITURA:

MAGELLAN MIC 6016-10 12,22,2010

Posizi		

	C	Mn	81	P	8	Cr	NI	Mo	Al (II)	Cu	Sp	TI
Min	0.400	0,75	0,15		0,020	08,0		0,15	0,020			
Max	0,430	1,00	0,35	0,035	0,040	1,10	0,25	0,25	0,050	0,35	0,100	0,0500
Coluta/Heat	0,408	0,84	0,27	0,011	0,021	1,04	0,14	0,23	0,021	0,22	0,010	0,0030
	B(T)	V	Nb	As	Ca	Sb	Co	Pb	O2/ppm	H1/ppm	D.I. INCH	
Min											5,40	
Max	8,000,0	0,100	0,060	0,100	0,1000	0.100	0,300	0,1000	20,00	3,00		
Coints/Heat	0,0001	0,008	0,004	0,005	0,0005	0,001	0,021	0,0010	13,00	1,40	6,21	

**ASTM A255-10** 

VACUUM DEGASSED

CALCIUM ALUMINUM TREATED

ELECTRICAL FURNACE MELTEDO

ANALYSIS TOLERANCE ASTM A29/A29M-12

FINE GRAIN STEEL

FULLY KILLED

# CARATT, MECCANICHE

MECHANICAL PROPERTIES - CARACTERISTIQUES MECANIQUE - MECHANISCHE EIGSNSCHAFTER

TRATTAMENTO TERMICO HEATTREATMENT

DUREZZE

HARDNESS

	SURFACE HARDNESS				
Min					
Max	212HB				
Colate/Heat	195HB				

# ACC. TO ASTM E10-12

## PROYA JOMINY KOMINY TEST - ESSAL KOMINY - STIRNAHSCHRECKVERSUCH

	JIN6" - HRC	32/16" - BRC	JV16" - HRC	J4/16" - HRC	J5/16" - HRC	16/16" - HRC	17/16" - RRC	38/16" - HRC	19/16" - HRC	Jimis" - HRC	311/16" - HRC	J32/16" - HRC
Min	55	55	54	53	53	52	51	50	49	47	46	44
Max	60	60	60	59	59	58	58	57	57	56	56	55
Colata/Hest	58,2	57,9	57,8	57,5	67,1	58,4	55,4	54,8	53,9	53,2	52,5	52,1
	JINI6" - HRC	J14/16" - HRC	J15/16" - HRC	JI6/I6" - HRC	J18/16" - HRC	J20/16" - HRC	HRC	J24/16" - HRC	J26/16" - 1IRC	128/16" - HRC	J30/16" - HRC	JIV16" - HRC
Bilin	42	41	40	39	37	36	35	34	34	34	33	33
Max	55	54	54	53	52	51	49	48	47	48	45	44

HARDENABILITY INCH-HRC ACC. TO "ASTM A304 - A255"

49,3

48,4

46,7

AUSTENITIZING TEMPERATURE 850°C

51,1

INCLUSIONI NON METALLICHE

44,9

43,3

41,8

40,6

39,3

36.5

37,6

NON METALLIC INCLUSION - INCLUSIONS NON METALLIQUES - PRUFUNG MICHTEMETALLISCHE EINSCHLUSSE

	Tipo A Type A	Tipe B Type 8	Tipo C Type C	Tipe D Type D
Fine	2	0	0	1
Gramo	1	0	0	0.5

50,1

# PHOENIX TUBE COMPANY, INC.

Manufacturer of Stainless Ornamental and Structural Tubing

# **CERTIFICATION OF TEST**

CUSTOMER ORDER#: C104124

CUST REF NBR:

DATE SHIPPED: 06/09/16

SIZE: 1-3/4RD X 11GA AW

SOURCE: USA

VENDOR: NAS

Phone# 5492603

ORDER#: 398480

QTY SHIPPED: 540.0

GRADE: 304L

WELD:

Ext:

TIG

HEAT#: YOLG TEST REPORT#: TR013131

Report Date: 02/19/16

Specification:

ASTM A554-15A

ASTM-A 240-15b

MFG USING

ANNEALED, AND SHOWS NO

1900F WATER QUENCHED.

T304L/304 DUAL CERTIFIED MT NO WELD REPAIR

RAW MATERIAL SPEC.

ANNEALED AND PICKLED

CONTINUOUS CARBIDE

UNS# 30400 / 30403

RoHS COMPLIANT

PLATE, SHEET OR STRIP

PRECIPITATION.

AISI 304L

EN 10204 2.2

NACE MR0175/01

MATERIAL IS FULL SOLUTION

MIN. SOLUTION ANNEAL TEMP

MERCURY IS NOT USED BY US AS AN ALLOYING MATERIAL NOR IS METALLIC MERCURY HANDLED IN THE VICNITY OF OUR PROCESSING LINES, MATERIAL IS FREE OF MERCURY CONTAMINATION.

Chemical Analysis

С	MN	Р	S	SI	CR	NI	MO	ÇU	co	N2	TI	
.01	1.74	.03	.012	.25	18.20	8.03	.31	.34	N/A	.09	N/A	

# Physical Analysis

	YIE	LD	TEN	SILE	OTHER	
Hardness	PSI	MPA	PSI	MPA	Percent EL	Percent RA
RB 85	46870	N/A	94020	N/A	49	N/A

THE CHEMICAL ANALYSES ARE CORRECT AS CONTAINED IN OUR CORPORATE RECORDS. PHYSICAL PROPERTIES ARE DETERMINED WHILE MATERIAL IS IN STRIP FORM.

THIS MATERIAL INCLUDING THE BILLETS, WAS

Melted & MFG in USA DFARS 252.225 Subsection Compliant, FAR BAA, DFAR BAA, FAR TAA Complies

CERTIFIED BY Inventory Control Dept.

1185 WIN DR ,BETHLEHEM, PA., 18017 - (610) 865-5337 FAX NUMBER: 610-865-4073

94506